Exploring Aeronautics			
2004 Mathematics			
Grade Level Expectations			
Louisiana Mathematics			
Grade 5			
Activity/Lesson	**State**	**Standards**	
The Resource Center	LA	MA.5.4	Compare positive fractions using number sense, symbols (i.e., <, =, >), and number lines
Science of Flight	LA	MA.5.19	Compare the relative sizes of common units for time, temperature, weight, mass, and length in real-life situations
Science of Flight	LA	MA.5.20	Identify appropriate tools and units with which to measure time, mass, weight, temperature, and length
Science of Flight	LA	MA.5.23	Convert between units of measurement for length, weight, and time, in U.S. and metric, within the same system
Integrating with Aeronautics	LA	MA.5.4	Compare positive fractions using number sense, symbols (i.e., <, =, >), and number lines
Integrating with Aeronautics	LA	MA.5.7	Select, sequence, and use appropriate operations to solve multi-step word problems with whole numbers
Integrating with Aeronautics	LA	MA.5.11	Explain concepts of ratios and equivalent ratios using models and pictures in real-life problems (e.g., understand that 2/3 means 2 divided by 3)
Integrating with Aeronautics	LA	MA.5.13	Write a number sentence from a given physical model of an equation (e.g., balance scale)
Integrating with Aeronautics	LA	MA.5.17	Distinguish among the processes of counting, calculating, and measuring and determine which is the most appropriate strategy for a given situation
Integrating with Aeronautics	LA	MA.5.28	Use various types of charts and graphs, including double bar graphs, to organize, display, and interpret data and discuss patterns verbally and in writing
Scientific Method(124-144)	LA	MA.5.28	Use various types of charts and graphs, including double bar graphs, to organize, display, and interpret data and discuss patterns verbally and in writing
Scientific Method(124-144)	LA	MA.5.30	Organize and display data using spreadsheets, with technology
Exploring Aeronautics			
2004 Mathematics			
Grade Level Expectations			
Louisiana Mathematics			
Grade 6			
Activity/Lesson	**State**	**Standards**	
The Resource Center	LA	MA.6.6	Compare positive fractions, decimals, and positive and negative integers using symbols (i.e., <, =, >) and number lines

Integrating with Aeronautics	LA	MA.6.6	Compare positive fractions, decimals, and positive and negative integers using symbols (i.e., <, =, >) and number lines
Integrating with Aeronautics	LA	MA.6.13	Use models and pictures to explain concepts or solve problems involving ratio, proportion, and percent with whole numbers
Integrating with Aeronautics	LA	MA.6.15	Match algebraic equations and expressions with verbal statements and vice versa
Integrating with Aeronautics	LA	MA.6.29	Collect, organize, label, display, and interpret data in frequency tables, stem-and-leaf plots, and scatter plots and discuss patterns in the data verbally and in writing
Scientific Method(124-144)	LA	MA.6.29	Collect, organize, label, display, and interpret data in frequency tables, stem-and-leaf plots, and scatter plots and discuss patterns in the data verbally and in writing
Exploring Aeronautics			
2004 Mathematics			
Grade Level Expectations			
Louisiana Mathematics			
Grade 7			
Activity/Lesson	**State**	**Standards**	
The Resource Center	LA	MA.7.2	Compare positive fractions, decimals, percents, and integers using symbols (i.e., <, less than or equal to, =, greater than or equal to, >) and position on a number line
Science of Flight	LA	MA.7.21	Compare and order measurements within and between the U.S. and metric systems in terms of common reference points (e.g., weight/mass and area)
Integrating with Aeronautics	LA	MA.7.2	Compare positive fractions, decimals, percents, and integers using symbols (i.e., <, less than or equal to, =, greater than or equal to, >) and position on a number line
Integrating with Aeronautics	LA	MA.7.7	Select and discuss appropriate operations and solve single- and multi-step, real-life problems involving positive fractions, percents, mixed numbers, decimals, and positive and negative integers
Integrating with Aeronautics	LA	MA.7.14	Write a real-life meaning of a simple algebraic equation or inequality, and vice versa
Integrating with Aeronautics	LA	MA.7.16	Solve one- and two-step equations and inequalities (with one variable) in multiple ways
Integrating with Aeronautics	LA	MA.7.21	Compare and order measurements within and between the U.S. and metric systems in terms of common reference points (e.g., weight/mass and area)
Scientific Method(124-144)	LA	MA.7.31	Analyze and interpret circle graphs, and determine when a circle graph is the most appropriate type of graph to use
Scientific Method(124-144)	LA	MA.7.32	Describe data in terms of patterns, clustered data, gaps, and outliers

Scientific Method(124-144)	LA	MA.7.33	Analyze discrete and continuous data in real-life applications
Exploring Aeronautics			
2004 Mathematics			
Grade Level Expectations			
Louisiana Mathematics			
Grade 8			
Activity/Lesson	**State**	**Standards**	
The Resource Center	LA	MA.8.1	Compare rational numbers using symbols (i.e., <, less than or equal to, =, greater than or equal to, >) and position on a number line
Science of Flight	LA	MA.8.37	Collect and organize data using box-and-whisker plots and use the plots to interpret quartiles and range
Integrating with Aeronautics	LA	MA.8.1	Compare rational numbers using symbols (i.e., <, less than or equal to, =, greater than or equal to, >) and position on a number line
Integrating with Aeronautics	LA	MA.8.3	Estimate the answer to an operation involving rational numbers based on the original numbers
Integrating with Aeronautics	LA	MA.8.11	Translate real-life situations that can be modeled by linear or exponential relationships to algebraic expressions, equations, and inequalities
Integrating with Aeronautics	LA	MA.8.13	Switch between functions represented as tables, equations, graphs, and verbal representations, with and without technology
Integrating with Aeronautics	LA	MA.8.31	Use area to justify the Pythagorean theorem and apply the Pythagorean theorem and its converse in real-life problems
Scientific Method(124-144)	LA	MA.8.34	Determine what kind of data display is appropriate for a given situation
Scientific Method(124-144)	LA	MA.8.36	Organize and display data using circle graphs
Scientific Method(124-144)	LA	MA.8.37	Collect and organize data using box-and-whisker plots and use the plots to interpret quartiles and range